

PROJECT DESCRIPTION



OVERVIEW OF TESTIMONY

- Summary of the Project
 - Project Facilities
 - Environmental Commitments
 - Operations Criteria
 - Adaptive Management
- Reaffirmation of Range of Alternatives
- Improved Delta Flow Criteria
- Public Interest Considerations
- Overview of Remaining DWR and Reclamation Testimony

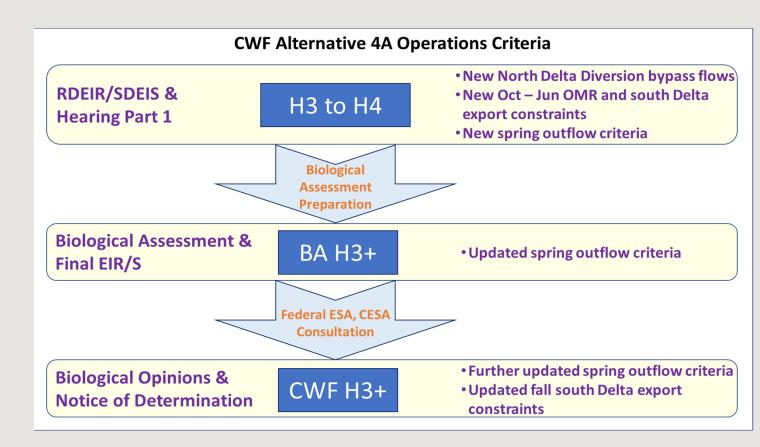


PROJECT DEFINITION

- California WaterFix Alternative 4A with operational scenario H3+ (CWF H3+) is the Project approved by Department of Water Resources (DWR)
- Project is defined in the July 2017 Certified Final Environmental Impact Report (FEIR)
- The Notice of Determination (NOD) was filed by DWR with the Governor's Office of Planning and Research,
 State Clearinghouse, on July 21, 2017



REFINEMENT OF PROJECT DESCRIPTION





REAFFIRMATION OF RANGE OF ALTERNATIVES

- CWF H3+ is within range of alternatives described in Part 1
 - Operational range between Alternative 4A H3 to H4
 - Boundary analysis defined by Boundary 1 and Boundary 2
- Prior to Part 2, USFWS and NMFS biological opinions criteria were defined – and there was no longer a need to consider a range of alternatives
- Therefore, only CWF H3+ is considered in Part 2



CWF H3+ OPERATIONAL CRITERIA

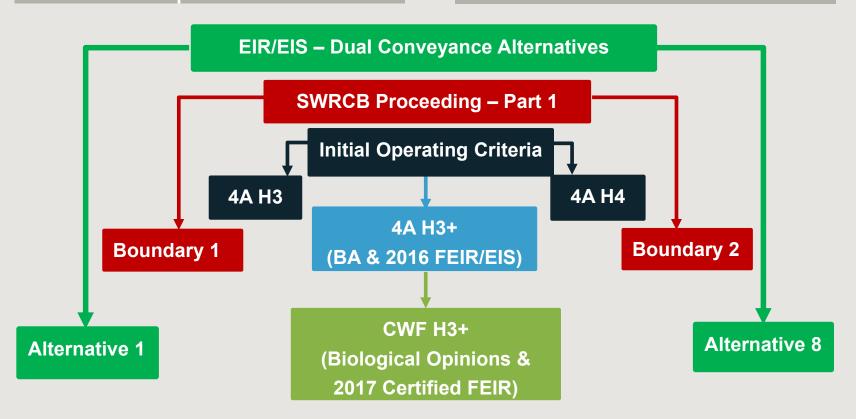
- Operational criteria presented in the 2016 Biological Assessment and 2016 FEIR/EIS was refined based on 2017 USFWS and NMFS biological opinions
 - Real-time operations approach for:
 - North Delta Intake Bypass Flows
 - South Delta export criteria for October-November
 - Head of Old River Gate operations
 - Spring Delta outflow targets and criteria March-May
- More details will be provided by the operations and CalSim II/DSM2 experts



RANGE OF ALTERNATIVES IN PARTS 1 AND 2

Similar to Existing Delta Outflow Requirements

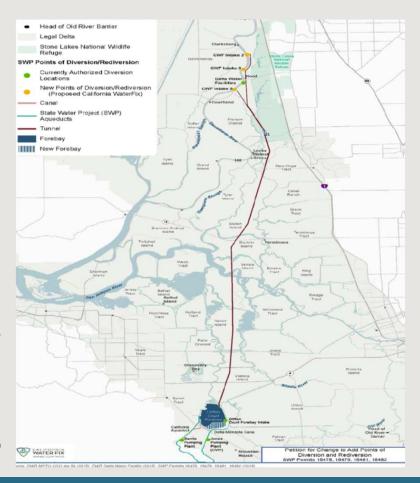
Higher Delta Outflow Requirements





CWF H3+ PROJECT FACILITIES

- Project facilities as described in Part 1
 - Based upon dual conveyance from both the north and south Delta
 - 3 intakes with state-of-the-art fish screens
 - Two tunnels that extend to existing Delta export facilities
 - Intermediate forebay
 - Pumping plant and new forebay near existing Clifton Court Forebay
- More details will be provided by engineering and recreation experts





CWF H3+ ENVIRONMENTAL COMMITMENTS

- Habitat restoration commensurate with mitigation requirements in the 2017 Certified FEIR
 - Include refinements based on consultation with U.S. Fish and Wildlife Service (USFWS), National Marine Fisheries Service (NMFS), and California Department of Fish and Wildlife
 - Increased mitigation restoration habitat
 - Delta smelt tidal natural community
 - Riparian natural community
 - Grassland natural community
- More details will be provided by the biology experts



ADAPTIVE MANAGEMENT

- Adaptive management addresses potential long-term changes in operations due to new scientific knowledge through an interagency process
- Broad purposes to:
 - Promote collaborative science
 - Guide development/implementation of science and monitoring
 - Apply new information and insights to management decisions/actions and recommend changes for CWF H3+
- More details will be provided by the biology experts



IMPROVED DELTA FLOW CRITERIA

- CWF H3+ will comply with existing Delta Flow Criteria
 - Decision 1641
 - 1995 Water Quality Control Plan
 - 2008 USFWS and 2009 NMFS Biological Opinions
- CWF H3+ also will increase spring Delta outflow as compared to Existing Conditions and No Action Alternative to benefit aquatic resources
- Delta outflow probably will be addressed in adaptive management process



CWF H3+ IMPROVES PUBLIC INTEREST CONSIDERATIONS

- CWF H3+ will improve Delta ecosystem conditions by capturing flow in wet periods and reducing exports in dry periods
 - Reduce reverse flows in south Delta
 - Reduce entrainment of aquatic species in south Delta and use state-of-theart fish screens at North Delta Diversions
- CWF H3+ adaptive management process will address scientific uncertainties and incorporate monitoring to improve SWP/CVP operations in a manner to minimize negative effects on aquatic species
- CWF H3+ will improve water supply reliability to over 25 million Californians and 3 million acres of irrigated land – which will reduce the potential for groundwater and local surface water overuse



OVERVIEW OF REMAINING DWR AND RECLAMATION TESTIMONY

Panel 1

- Project description
- SWP and CVP operations

Panel 2

- Modeling approaches for hydrologic, water quality, and biological models
- Engineering-related construction-based effects on navigation

Panel 3

Approaches to evaluating effects on recreation opportunities